

SCO[®] UNIX[®] System V/386

**Operating System
International Supplement**

**Release and Installation Notes
Release 2.0.0**

The Santa Cruz Operation, Inc.

NEW YORK SYSTEM WATER

Operating Division

International Corporation

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The New York City Corporation

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Date: 14 Mar 90

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1801.

2. The second part is a report from the Secretary of the Treasury, dated January 1, 1801.

3. The third part is a report from the Secretary of the Navy, dated January 1, 1801.

4. The fourth part is a report from the Secretary of the War, dated January 1, 1801.

5. The fifth part is a report from the Secretary of the Interior, dated January 1, 1801.

6. The sixth part is a report from the Secretary of the State, dated January 1, 1801.

7. The seventh part is a report from the Secretary of the War, dated January 1, 1801.

8. The eighth part is a report from the Secretary of the Navy, dated January 1, 1801.

9. The ninth part is a report from the Secretary of the Treasury, dated January 1, 1801.

International Operating System Release Notes

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1. The first of the three main points is that the

system is not a new one.

2. The second point is that the system is not a new one.

3. The third point is that the system is not a new one.

4. The fourth point is that the system is not a new one.

5. The fifth point is that the system is not a new one.

6. The sixth point is that the system is not a new one.

7. The seventh point is that the system is not a new one.

8. The eighth point is that the system is not a new one.

9. The ninth point is that the system is not a new one.

10. The tenth point is that the system is not a new one.

Release Notes
SCO International UNIX System V/386
Operating System Release 3.2
and
SCO UNIX System V/386
Operating System
International Supplement Release 2.0
For Industry Standard Computers
14th March 1990

1. Preface

This document contains important information about the SCO International UNIX System V/386 Operating System Release 3.2.1, and subsequent releases, and SCO UNIX System V/386 Operating System International Supplement Release 2.0.

These notes contain the following:

- Installation Notes
- Installation Procedure
- Internationalization Software Notes
- Device Configuration

Note

Please read through the entire document before installing the SCO UNIX System V/386 Operating System International Supplement.

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SCO is always pleased to hear of users' experiences with our product, and recommendations of how it can be made even more useful. All written suggestions are given serious consideration.

1.1 Conventions Used in these Notes

The following conventions are used throughout this document:

- Commands that you are requested to enter, are shown in boldface. For example: **custom**
- In text, commands are appended with the *SCO Unix System V/386 Operating System User's Reference* section in parenthesis. For example: **mapchan(M)**
- Directories and filenames are printed in italics. For example: */usr/lib/vidi/850.8x16*
- Keyboard keys are shown in angled brackets. For example: <Return>
- Screen text is shown in boxes. For example:

Select a product : []

Choose a type : [Entire Product] Packages Files

1.2 Contents of the International Operating System

The International UNIX System V/386 Operating System includes the complete distribution for SCO UNIX System V/386 Operating System Release 3.2.1 and subsequent releases.

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The documentation for SCO UNIX System V/386 Operating System Release 3.2.1, Open Desktop, is as follows:

- Open Desktop Release Notes
- Open Desktop Installation Guide
- Open Desktop Administrator's Guide
- Open Desktop User's Guide

The documentation for SCO UNIX System V/386 Operating System releases subsequent to 3.2.1 is as follows:

- SCO UNIX System V/386 Release Notes
- SCO UNIX System V/386 Installation Guide
- SCO UNIX System V/386 User's Guide
- SCO UNIX System V/386 Administrator's Guide
- SCO UNIX System V/386 User's Reference Manual
- SCO UNIX System V/386 Administrator's Reference Manual
- SCO UNIX System V/386 Tutorial

1.2.1 Diskette Volumes in this Distribution

For SCO UNIX System V/386 Operating System Release 3.2.1, the diskette volume numbers are found in the Open Desktop Release Notes.

For SCO UNIX System V/386 Operating System releases subsequent to release 3.2.1 (Open Desktop Operating System), the diskette volume numbers are found in the Release Notes for SCO UNIX System V/386 Operating System Release 3.2.

International UNIX Supplement

1.3 Contents of the OS International Supplement

The SCO UNIX System V/386 Operating System International Supplement includes the following:

- SCO UNIX System V/386 Operating System International Supplement Release and Installation Notes
- SCO UNIX System V/386 International Operating System Guide
- SCO UNIX System V/386 Operating System International Supplement diskettes

1.3.1 Files in this Set

The SCO UNIX System V/386 Operating System International Supplement distribution media contains the files listed below and on the following pages. Other files, for performing installation and initialization, may also be included in the distribution:

/tmp/perms/sup.os
/tmp/perms/prep.sup.os
/tmp/perms/prep/english_us/prep.message
/tmp/ws685pc
/tmp/cmds
/tmp/graph
/tmp/shfkeys
/tmp/brand
/tmp/fixperm
/etc/getty
/usr/lib/lang/english/uk/8859/time
/usr/lib/lang/english/uk/ascii/time
/usr/lib/lang/english/uk/8859m/collate

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/usr/lib/lang/english/us/8859m/collate
/usr/lib/lang/french/france/8859m/collate
/usr/lib/lang/german/germany/8859m/collate
/usr/lib/lang/english/uk/8859/currency
/usr/lib/lang/english/uk/ascii/currency
/usr/lib/lang/french/france/ascii/time
/usr/lib/lang/french/france/ascii/numeric
/usr/lib/lang/german/germany/ascii/numeric
/usr/lib/lang/french/france/8859/numeric
/usr/lib/lang/german/germany/8859/numeric
/usr/lib/lang/french/france/ascii/currency
/usr/lib/lang/french/france/8859/currency
/usr/lib/lang/french/france/ascii/messages
/usr/lib/lang/french/france/8859/messages
/usr/lib/lang/french/france/8859/time
/usr/lib/lang/german/germany/ascii/time
/usr/lib/lang/german/germany/8859/currency
/usr/lib/lang/german/germany/ascii/currency
/usr/lib/lang/german/germany/ascii/messages
/usr/lib/lang/german/germany/8859/messages
/usr/lib/lang/german/germany/8859/time
/etc/default/lang
/tmp/init.1_rtsup
/tmp/init1/english_us/init1.message
/usr/lib/keyboard/ps.ibm.usa
/usr/lib/keyboard/ps.ibm.ukd
/usr/lib/keyboard/ps.ibm.ger
/usr/lib/keyboard/ps.ibm.swg
/usr/lib/keyboard/ps.ibm.swf
/usr/lib/keyboard/ps.ibm.fra
/usr/lib/keyboard/ps.ibm.bel
/usr/lib/keyboard/ps.por.por
/usr/lib/keyboard/ps.spa.spa

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/usr/lib/keyboard/ps.ibm.spa
/usr/lib/keyboard/ps.ibm.ita
/usr/lib/keyboard/ps.grk.grg
/usr/lib/keyboard/ps.grk.gra
/usr/lib/keyboard/ps.nor.dan
/usr/lib/keyboard/ps.nor.nor
/usr/lib/keyboard/ps.ibm.swe
/usr/lib/keyboard/at.ibm.usa
/usr/lib/keyboard/at.ibm.ukd
/usr/lib/keyboard/at.ibm.ger
/usr/lib/keyboard/at.ibm.fra
/usr/lib/keyboard/at.ibm.spa
/usr/lib/keyboard/at.ibm.ita
/usr/lib/keyboard/at.iso.usa
/usr/lib/keyboard/at.iso.ukd
/usr/lib/keyboard/at.iso.ger
/usr/lib/keyboard/at.iso.swg
/usr/lib/keyboard/at.iso.swf
/usr/lib/keyboard/at.iso.fra
/usr/lib/keyboard/at.iso.spa
/usr/lib/keyboard/at.iso.ita
/usr/lib/keyboard/at.iso.nor
/usr/lib/keyboard/at.iso.swe
/usr/lib/keyboard/ps.850.bel
/usr/lib/keyboard/ps.850.can
/usr/lib/keyboard/ps.850.dan
/usr/lib/keyboard/ps.850.fin
/usr/lib/keyboard/ps.850.swe
/usr/lib/keyboard/ps.850.fra
/usr/lib/keyboard/ps.850.ger
/usr/lib/keyboard/ps.850.ita
/usr/lib/keyboard/ps.850.lsp
/usr/lib/keyboard/ps.850.ndl

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/usr/lib/keyboard/ps.850.nor
/usr/lib/keyboard/ps.850.por
/usr/lib/keyboard/ps.850.spa
/usr/lib/keyboard/ps.850.swf
/usr/lib/keyboard/ps.850.swg
/usr/lib/keyboard/ps.850.ukd
/usr/lib/keyboard/ps.850.usa
/usr/lib/lang.src/chr.8859.src
/usr/lib/lang.src/chr.asci.src
/usr/lib/lang.src/col.8859.src
/usr/lib/lang.src/col.8859m.src
/usr/lib/lang.src/col.asci.src
/usr/lib/lang.src/cur.fra.src
/usr/lib/lang.src/cur.ger.src
/usr/lib/lang.src/cur.uk7.src
/usr/lib/lang.src/cur.uk8.src
/usr/lib/lang.src/cur.us.src
/usr/lib/lang.src/mes.engl.src
/usr/lib/lang.src/mes.fra.src
/usr/lib/lang.src/mes.ger.src
/usr/lib/lang.src/mktables
/usr/lib/lang.src/num.engl.src
/usr/lib/lang.src/num.euro.src
/usr/lib/lang.src/tim.fra7.src
/usr/lib/lang.src/tim.fra8.src
/usr/lib/lang.src/tim.ger7.src
/usr/lib/lang.src/tim.ger8.src
/usr/lib/lang.src/tim.uk.src
/usr/lib/lang.src/tim.us.src
/tmp/init.2_base
/tmp/init2/english_us/init2.message
/usr/lib/terminfo/d/dumb
/usr/lib/terminfo/u/unknown

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/usr/lib/terminfo/w/wy60.new
/usr/lib/terminfo/w/wyse60n
/usr/lib/terminfo/w/wy60n
/usr/lib/terminfo/w/ws685
/usr/lib/terminfo/w/ws685pc
/usr/lib/terminfo/euroinfo.src
/tmp/init.4_ex
/tmp/init4/english_us/init4.message
/usr/lib/mapchan/nrc.chw
/usr/lib/mapchan/nrc.fra
/usr/lib/mapchan/nrc.ger
/usr/lib/mapchan/nrc.ita
/usr/lib/mapchan/nrc.nor
/usr/lib/mapchan/nrc.spa
/usr/lib/mapchan/nrc.swe
/usr/lib/mapchan/nrc.ukd
/usr/lib/mapchan/qvt.fra
/usr/lib/mapchan/tvi.fra
/usr/lib/mapchan/tvi.ger
/usr/lib/mapchan/tvi.nor
/usr/lib/mapchan/tvi.por
/usr/lib/mapchan/tvi.spa
/usr/lib/mapchan/tvi.swe
/usr/lib/mapchan/tvi.ukd
/usr/lib/mapchan/wy60.fra.ans
/usr/lib/mapchan/wy60.fra.asc
/usr/lib/mapchan/wy60.ger
/usr/lib/mapchan/w60.ibmfra.ans
/usr/lib/mapchan/w60.ibmfra.asc
/usr/lib/mapchan/wy60.ibm.ger
/usr/lib/mapchan/qvt.ger
/usr/lib/mapchan/cons.ibm
/usr/lib/mapchan/cons.iso

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/usr/lib/mapchan/cons.nor
/usr/lib/mapchan/cons.por
/usr/lib/mapchan/cons.spa
/usr/lib/mapchan/cons.grk
/usr/lib/mapchan/cons.850
/usr/lib/mapchan/hp.ansi.7.bel
/usr/lib/mapchan/hp.ansi.7.fra
/usr/lib/mapchan/hp.ansi.7.can
/usr/lib/mapchan/hp.ansi.7.dan
/usr/lib/mapchan/hp.ansi.7.nor
/usr/lib/mapchan/hp.ansi.7.fin
/usr/lib/mapchan/hp.ansi.7.ger
/usr/lib/mapchan/hp.ansi.7.grd
/usr/lib/mapchan/hp.ansi.7.ita
/usr/lib/mapchan/hp.ansi.7.ndl
/usr/lib/mapchan/hp.ansi.7.por
/usr/lib/mapchan/hp.ansi.7.spa
/usr/lib/mapchan/hp.ansi.7.swe
/usr/lib/mapchan/hp.ansi.7.swi
/usr/lib/mapchan/hp.ansi.7.ukd
/usr/lib/mapchan/hp.ansi.7.usa
/usr/lib/mapchan/hp.ascii.7.usa
/usr/lib/mapchan/hp.ansi.8
/usr/lib/mapchan/hp.ascii.7.bel
/usr/lib/mapchan/hp.ascii.7.fra
/usr/lib/mapchan/hp.ascii.7.can
/usr/lib/mapchan/hp.ascii.7.dan
/usr/lib/mapchan/hp.ascii.7.esp
/usr/lib/mapchan/hp.ascii.7.fin
/usr/lib/mapchan/hp.ascii.7.swe
/usr/lib/mapchan/hp.ascii.7.ger
/usr/lib/mapchan/hp.ascii.7.ita
/usr/lib/mapchan/hp.ascii.7.lsp

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/usr/lib/mapchan/hp.ascii.7.ndl
/usr/lib/mapchan/hp.ascii.7.nor
/usr/lib/mapchan/hp.ascii.7.swi
/usr/lib/mapchan/hp.ascii.7.ukd
/usr/lib/mapchan/hp.roman.8
/tmp/init.3_mapfi
/tmp/init3/english_us/init3.message
/usr/lib/vidi/iso.8x8
/usr/lib/vidi/iso.8x14
/usr/lib/vidi/iso.8x16
/usr/lib/vidi/nor.8x8
/usr/lib/vidi/nor.8x14
/usr/lib/vidi/nor.8x16
/usr/lib/vidi/por.8x8
/usr/lib/vidi/por.8x14
/usr/lib/vidi/por.8x16
/usr/lib/vidi/spa.8x8
/usr/lib/vidi/spa.8x14
/usr/lib/vidi/spa.8x16
/usr/lib/vidi/grk.8x8
/usr/lib/vidi/grk.8x14
/usr/lib/vidi/grk.8x16
/usr/lib/vidi/isr.8x8
/usr/lib/vidi/isr.8x14
/usr/lib/vidi/isr.8x16
/usr/lib/vidi/850.8x8
usr/lib/vidi/850.8x14
usr/lib/vidi/850.8x16

2. Important Notes About Installation

The SCO UNIX System V/386 Operating System International Supplement 2.0 requires release 3.2.1 or a subsequent release of the SCO UNIX System V/386. As the International Supplement is adding to, or modifying the SCO UNIX System V/386 Operating System, please note the following:

- The supplement must be installed in single user (System Maintenance) mode. The installation script will warn you if this is attempted while other users are still on the system.
- When **custom(ADM)** lists the packages currently installed on your system, some of the International Supplement packages will register as fully or partly installed, despite the fact that you have not yet installed them. This is because there are 7-bit files from the standard operating system already in place and it is these that are shown as installed.
- If you do not have the MAPCHAN package currently installed, you will be asked to insert diskettes from the UNIX Operating System distribution. Make sure you have these diskettes to hand.

3. Installation Procedure

This section explains how to install the SCO UNIX System V/386 Operating System International Supplement on a computer currently running UNIX System V/386 release 3.2.1 or a subsequent release. After the installation, configure your system to suit your hardware and language environment.

The installation instructions in this section are for all distribution types (96 and 135 tpi). Each distribution may contain a different number of volumes, but the steps are the same for all distributions. Just follow the instructions on the screen to insert the next disk when prompted.

If this Supplement was purchased as part of the International UNIX System V/386 Operating System, perform the UNIX Operating System installation described in Chapter 2 of the *SCO UNIX System V/386 Installation Guide* before continuing.

To install the SCO UNIX System V/386 Operating System International Supplement, follow the instructions below. If you encounter a problem while using **custom(ADM)**, press the <Return> key to continue:

1. Halt the system, by typing `/etc/shutdown`, reboot and enter single user (System Maintenance) mode. Type **custom**, and press <Return>.

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2. The system displays the main custom menu, which offers options to install, remove, list and quit. The menu also lists the products currently installed on your system:

Products Currently installed

The Operating System
The Development System
The Text Processing System

The software list on your screen is probably different from the one shown above. Use the arrow keys to highlight *Install* and press <Return>.

3. The Install screen appears:

Select a product : []

Choose a type : [Entire Product] Packages Files

The Install screen also shows a list of software:

*A New Product
The Operating System
The Development System
The Text Processing System

Again, your software list might look different. If you are installing the International Supplement for the first time, select *A New Product* and press <Return>.

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If you are re-installing, an extra option is offered specifically for re-installation. Select the option, *SCO UNIX System V/386 Operating System International Supplement*.

4. The install screen offers the choice of installing the *Entire Product*, *Packages* or *Files*:

Select a product : [A New Product]

Choose a type : Entire Product Packages Files

To install the complete International UNIX OS Supplement select *Entire Product* and press <Return>.

If you wish to select from a choice of packages select *Packages* and press <Return>.

5. Next, the Install screen directs you to insert SCO UNIX System V/386 Operating System International Supplement volume 1:

Insert the requested volume and press <Return> to continue the installation

Insert : Distribution

Volume : 1

Insert volume 1 and press <Return> to continue. The message "Installing custom data files..." appears at the top of the Install screen.

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6. The screen clears and the message "Executing Product Prep Script" is displayed. Press any key to continue the installation.

If you are installing the International Supplement in multi-user mode, the following message is displayed:

The Operating System Supplement should be installed in single-user ("System Maintenance") mode. Otherwise, unpredictable failures may occur during installation.

Are you absolutely sure you wish to install in multi-user mode? (y/n)

You are advised to answer "n" to the prompt above. The system will break out of **custom** for you to re-install the International Supplement from step 1.

If you decide to continue in multi-user mode by pressing "y", you may receive errors later in the installation.

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7. If you selected *Packages* from the screen offering package types, a list of the SCO UNIX System V/386 Operating System International Supplement packages is displayed for you to choose from.

Information about the packages is displayed in four columns; the name of the package is displayed first, followed by whether the package is partly or fully installed, followed by the size of the package, and a description of the package:

ALL	Part	7554	Complete International UNIX O.S. Supplement
RTSUP	Part	3032	Supplement to UNIX Run Time System
BASE	Part	1180	Supplement to basic extended utility set
EX	Part	454	Terminfo Files
MAPFILE	Part	1218	ISO 8859 mapchan files
FONT	Part	142	Font files for international character sets

Note that the 'size' column in the above display, may vary depending on release version.

Also note that selecting *ALL* is the same as if you had selected *Entire Package* from the screen offering package types.

If you installed the SCO UNIX System V/386 Operating System, you will notice that the table above, is very similar to the one displayed by *custom* during the operating system installation.

Some packages can be installed only if the corresponding standard product package has been installed already. If the standard product package is re-installed for any reason, the corresponding International Supplement package must be re-installed, also. This is because the package will have been overwritten by the standard one.

Note

MAPFILE adds a number of files which allow filtering of characters, both on input and output, using the **mapchan(M)** utility. Thus, a uniform and transparent interface is presented to the user.

FONT adds a number of files which can be used with the **vidi(C)** utility. They provide new console character sets to support alternative national language characters.

Highlight the line(s) corresponding to the SCO UNIX System V/386 Operating System International Supplement package(s) you wish to install, and press <Space> to select. Then press <Return>. The message "Creating file lists..." appears at the top of the Install screen.

8. Again, the system instructs you to insert volume 1, which should still be in the drive. Press <Return>.

The message "Extracting files" appears and remains on the screen as long as **custom** is extracting SCO UNIX System V/386 Operating System International Supplement packages from the disk. If this release of the International Supplement has more than one volume, you are asked to load each additional volume in turn.

A list of the distribution-media files is included in the section "Files in this Set".

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9. If you selected ALL, follow the instructions from step 10 through to step 15.
10. If you selected the RTSUP package, the following message is displayed after the RESTRICTED RIGHTS LEGEND:

SCO UNIX System V/386 O.S. International Supplement Serialization

Enter your serial number or enter q to quit:

Enter your activation key or enter q to quit:

Enter your serial number and activation key.

11. If you selected the RTSUP package, you will see the line:

System-wide locale initialization

The current settings will be printed. The first is the default locale if no **LANG** environment variable is defined. Subsequent lines are the per-language defaults for the territory and code set if a **LANG** environment variable is set to a language only.

You will then see the line:

Do you wish to change these default locale settings? (y/n)

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If you select “y”, the message “Reading locale information ... Available locales are:” is displayed and you are presented with a list of the currently available locales. Choose an entry for the primary default:

Please enter your choice for the primary default [1 - n]
or enter q to quit

You will then be asked if you wish to add defaults for other languages. If you answer yes, you will again be presented with a list of available locales. You can select any number of per-language defaults.

When you have selected as many locales as you need, press “q”. You will see the message:

Default locale selection complete.

12. If you selected the BASE package, the following message is displayed:

Configuring Keyboards

Please refer to the table of available keyboard files in the Release and Installation Notes.

You will then see a message:

Do you wish to have a keyboard map automatically selected during system startup? (y/n)

If you select “y”, you will see the message:

Enter the option number for your keyboard type [1-49] or type ‘q’ to quit:

If you decide not to select a keyboard type, enter “q” and follow the instructions from step 14 onwards.

Select a keyboard type from the table below and enter the appropriate number.

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PS/2™ style keyboards (with the display character ROM type in parentheses if not IBM®):

1. American
2. United Kingdom
3. German
4. Swiss German
5. Swiss French
6. French
7. Belgian
8. Portuguese (Portuguese)
9. Spanish (Spanish)
10. Spanish International
11. Italian
12. Greek with Greek characters as default (Greek)
13. Greek with ASCII characters as default (Greek)
14. Danish (Norwegian)
15. Norwegian (Norwegian)
16. Swedish

PC-AT style keyboards:

17. American
18. United Kingdom
19. German
20. French
21. Spanish
22. Italian

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PC-AT style keyboards on a system using ISO8859 mapchan:

23. American
24. United Kingdom
25. German
26. Swiss German
27. Swiss French
28. French
29. Spanish
30. Italian
31. Norwegian
32. Swedish

PS/2 style keyboards using codepage 850:

33. American
34. United Kingdom
35. German
36. Swiss German
37. Swiss French
38. French
39. Belgian
40. Portuguese
41. Spanish
42. Italian
43. Danish
44. Norwegian
45. Swedish
46. Finnish
47. Canadian
48. Latin Spanish
49. Dutch

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When you enter a valid option number, you will see the message:

Preserving ./usr/lib/keyboard/keys as ./usr/lib/keyboard/keys.old

Your keyboard will be mapped with the chosen option.

13. If you selected the MAPFILE package and the MAPCHAN package is partially installed or not installed at all, you are prompted to install MAPCHAN:

International Character set mapping is not installed.

Do you wish to install it now? (y/n)

OR

International Character set mapping is only partially installed.

Do you wish to install it now? (y/n)

The MAPCHAN package must be installed so that the channel mapping features of the International Supplement can be used. Select “y”, unless you do not wish to use channel mapping for peripheral devices. If you select “y” you are prompted for volumes from the Operating System distribution.

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14. If you selected the MAPFILE package, you see the message:

The following procedure should be selected if you intend to use the ISO 8859 internal character set, which is recommended. If you wish to configure your own channel maps, or leave in place maps which you have already configured, reply 'n' to the next question:

Do you wish to configure automatic character set mapping? (y/n)

Note

If you have a Greek PS/2 style keyboard you can also configure automatic character set mapping by entering "y" to the above question. The character set used for Greek does not conform to the ISO 8859 character set.

Unless you are re-installing the International Supplement, (or don't require mapping) you should select "y" at the prompt. If you enter "n", proceed to step 15.

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You will then see a message describing the next steps in configuring mapchan files, followed by a list of available tty lines and the following prompt:

Please enter a mapchan file type to assign to one or more of these terminals [1-69] or enter q to quit:

You should select a mapchan file type from the following table, or answer "q" if you wish to set them all to a common type.

Note that the section "Terminals" in Appendix A of these notes, details which mapchan file to use with each supported terminal.

1. 7-bit ASCII
2. HP[®] Laser Jet ROMAN-8
3. Console with PC character ROM
4. Console with ISO 8859 ROM
5. Console with PC Nordic ROM
6. Console with PC Portuguese ROM
7. Console with PC Spanish National ROM
8. Console with PC Greek ROM
9. Console with IBM PC 850 Multilingual code page
10. 7-bit French Canadian NRC
11. 7-bit Swiss German NRC
12. 7-bit French NRC (NFZ62-101 1982)
13. 7-bit German NRC (DIN66003)
14. 7-bit Italian NRC
15. 7-bit Norwegian NRC
16. 7-bit Spanish NRC
17. 7-bit Swedish NRC

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18. 7-bit UK English NRC (BS4730)
19. Qume[®] French NRC
20. Qume German NRC
21. TeleVideo[™] French NRC
22. TeleVideo German NRC
23. TeleVideo Norwegian/Danish NRC
24. TeleVideo Portuguese NRC
25. TeleVideo Spanish NRC
26. TeleVideo Swedish/Finnish NRC
27. TeleVideo UK English NRC
28. TeleVideo US ASCII
29. DEC[®] Multinational 8-bit
30. Wyse[®] French (ANSI Keyboard)
31. Wyse French (ASCII Keyboard)
32. Wyse French 8-bit (ANSI Keyboard)
33. Wyse French 8-bit (ASCII Keyboard)
34. Wyse German
35. Wyse 8-bit German
36. HP Belgian 7-bit ANSI
37. HP French 7-bit ANSI
38. HP Canadian English/French 7-bit ANSI
39. HP Danish 7-bit ANSI
40. HP Norwegian 7-bit ANSI
41. HP Finnish 7-bit ANSI
42. HP German 7-bit ANSI
43. HP German DIN 7-bit ANSI
44. HP Italian 7-bit ANSI
45. HP Dutch 7-bit ANSI
46. HP Portuguese 7-bit ANSI
47. HP Spanish 7-bit ANSI
48. HP Swedish 7-bit ANSI

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- 49. HP Swiss German/French 7-bit ANSI
- 50. HP UK 7-bit ANSI
- 51. HP US 7-bit ANSI
- 52. HP Belgian 7-bit ASCII
- 53. HP French 7-bit ASCII
- 54. HP Canadian English/French 7-bit ASCII
- 55. HP Danish 7-bit ASCII
- 56. HP European Spanish 7-bit ASCII
- 57. HP Finnish 7-bit ASCII
- 58. HP Swedish 7-bit ASCII
- 59. HP German 7-bit ASCII
- 60. HP Italian 7-bit ASCII
- 61. HP Latin Spanish 7-bit ASCII
- 62. HP Dutch 7-bit ASCII
- 63. HP Norwegian 7-bit ASCII
- 64. HP Swiss German/French 7-bit ASCII
- 65. HP UK 7-bit ASCII
- 66. HP US 7-bit ASCII
- 67. HP ANSI 8-bit
- 68. HP ROMAN 8-bit
- 69. Other

You will then see:

Please enter serial lines to map as *your choice* or
enter 'q' to quit.

Enter, on one line separated by a space, the ttys you wish to have mapped by the selected mapchan file type.

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You can now repeat this for another mapchan file type, or answer “q” to the “Please enter a mapchan...” prompt. If there are many ttys unmapped after this stage, you will see the message below, followed by a list of unmapped ttys:

The following serial lines remain unmapped:

You are then prompted:

Do you wish to select a common channel map for all these serial lines? (y/n)

If you answer “y” to this question, you must then answer the following question:

Please enter the mapchan file type for all remaining terminals [1-69] or enter q to quit:

Select the table of mapchan file types given earlier in these notes. Note that channel mapping does not come into effect until the system is rebooted.

15. You are returned to the custom menu. The International Supplement is now installed on your system.

4. Configuring the System

The installation procedure only configures some basic system requirements. It may also be necessary to modify the configuration to satisfy individual users' needs. Examples of areas which need consideration are:

- Terminals and printers may need to be adjusted. This is both with their own setup procedure and with the correct mapchan files.
- The system needs to be working with a consistent internal character set.
- Users may need to have their environment set, so that date, time, currency and numerical output meets their specific requirements.
- Collation sequences may need to be set so that sorting and use of regular expressions proceed according to specific requirements.
- If a mixture of 7 and 8-bit software is being used, the users must be aware of how to use both types together.

This is covered in the *SCO UNIX System V/386 International Operating System Guide*. The chapter on "Administering International UNIX" deals with the practical aspects of the above tasks, and the chapter on "Introducing International UNIX" gives more detail on the system.

5. Internationalization Software Notes

5.1 Use of 8-bit User Names

This release of the International UNIX System V/386 Operating System does not support the use of 8-bit characters in user names. Therefore, system administrators should not create user names containing 8-bit characters. See the section “The Systems Administrator and 8-bit Characters” in the *International Operating System Guide*, for details.

5.2 Using International Locale Definition Commands

The **chrtbl(M)**, **coltbl(M)**, **mestbl(M)**, **montbl(M)**, **timtbl(M)** utilities allow the user to define the international locale. The international locale is a definition of local conventions used by UNIX libraries, utilities and applications. Each utility reads a specification file and produces a table format file in the current directory. This file is used by the **setlocale**. The table format file is generated with incorrect file access permissions. Use the **chmod(C)** command to change the table file access permissions to:

```
-rw-r--r--
```


Appendix A

Device Configuration

-
- A.1 Device Configuration A-1
 - A.1.1 Keyboard Mapping for the Console A-1
 - A.1.2 Dead Key Sequences A-3
 - A.1.3 Screen Font Mapping for the Console A-3
 - A.1.4 Setting up a Printer A-4
 - A.1.5 Terminals A-5
 - A.1.5.1 Supported Terminals A-7
 - A.1.5.2 Setting up a Terminal A-15

Inventory of
The First Collection

The following is a list of the items
in the collection, arranged in
alphabetical order. The items are
listed in the order in which they
were received. The items are
listed in the order in which they
were received.

A.1 Device Configuration

A.1.1 Keyboard Mapping for the Console

The following mapkey files are supplied for various PS/2 and PC-AT style keyboards and different character sets. The files are held in the directory */usr/lib/keyboard*. Use the following tables to select the appropriate keyboard file for your console:

PS/2 style keyboard	ROM or vidi(C) font					
	PC Standard ibm	PC HP 850	PC Nordic nor	PC Portuguese por	PC Spanish spa	PC Greek grk
Belgian	ps.ibm.bel	ps.850.bel	ps.nor.dan	ps.por.por	ps.spa.spa	ps.grk.gra ps.grk.grg
Canadian		ps.850.can				
Danish		ps.850.dan				
Dutch		ps.850.ndl				
Finnish		ps.850.fin				
French	ps.ibm.fra	ps.850.fra				
German	ps.ibm.ger	ps.850.ger				
Greek (ASCII def.)						
Greek (Greek def.)						
Italian	ps.ibm.ita	ps.850.ita				
Latin Spanish	ps.ibm.lsp	ps.850.lsp	ps.nor.nor	ps.por.por	ps.spa.spa	ps.grk.gra ps.grk.grg
Norwegian		ps.850.nor				
Portuguese		ps.850.por				
Spanish						
Spanish Intl.	ps.ibm.spa	ps.850.spa				
Swedish	ps.ibm.swe	ps.850.swe				
Swiss French	ps.ibm.swf	ps.850.swf				
Swiss German	ps.ibm.swg	ps.850.swg				
UK English	ps.ibm.ukd	ps.850.ukd				
USA English	ps.ibm.usa	ps.850.usa				

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PC-AT style Keyboard	ROM or vidi(C) font	
	PC Standard ibm	PC ISO 8859/1 iso
French	at.ibm.fra	at.iso.fra
German	at.ibm.ger	at.iso.ger
Italian	at.ibm.ita	at.iso.ita
Norwegian		at.iso.nor
Spanish	at.ibm.spa	at.iso.spa
Swedish		at.iso.swe
Swiss French		at.iso.swf
Swiss German		at.iso.swg
UK English	at.ibm.ukd	at.iso.ukd
USA English	at.ibm.usa	at.iso.usa

Note that the layout of different manufacturer's keyboards can vary, so some changes may be necessary to these files for correct operation on your system.

A.1.2 Dead Key Sequences

Six dead keys are supported by the map files provided with the UNIX system. The map files for the following terminals use the specified dead keys. The other map files do not provide dead keys, but can be modified to do so:

File	caret (^ˆ)	acute ([˘])	grave ([`])	umlaut ([¨])	tilde ([˜])	cedilla ([¸])
cons.ibm	X	X	X	X		
cons.nor	X	X	X	X	X	
cons.por	X	X	X	X	X	
cons.spa		X	X	X		
cons.850	X	X	X	X	X	X
cons.grk		X		X		
tvi.fra	X					
wy60.ger		X	X			
wy60.fra.asc	X			X		
wy60.fra.ans	X			X		
w60.ibmfra.ans	X			X		
w60.ibmfra.asc	X			X		
wy60.ibm.ger		X	X			

A.1.3 Screen Font Mapping for the Console

If you change mapchan mapping for a console with any type of display adapter, you will also need to change the character font.

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The **vidi(C)** utility defines the font for one of the character sets given below. The following font definition files are available in the directory */usr/lib/vidi*:

Character Set	8x8 font	8x14 font	8x16 font
Codepage 850	850.8x8	850.8x14	850.8x16
ISO 8859	iso.8x8	iso.8x14	iso.8x16
PC Greek	grk.8x8	grk.8x14	grk.8x16
PC Israeli	isr.8x8	isr.8x14	isr.8x16
PC Nordic	nor.8x8	nor.8x14	nor.8x16
PC Portuguese	por.8x8	por.8x14	por.8x16
PC Spanish	spa.8x8	spa.8x14	spa.8x16
PC Standard	font.8x8	font.8x14	font.8x16

A.1.4 Setting up a Printer

A printer can be used with any suitable mapchan file. A suitable file is one that maps from the internal character set to the character set used by the printer on output.

The table below, lists the mapchan files supplied for use with specific printers. All files are in the directory */usr/lib/mapchan*:

File	Device
hp.roman8	Hewlett-Packard LaserJet Printer ROMAN-8 set
ibm	Any printer using the IBM PC character set

A.1.5 Terminals

The following mapchan files are provided in */usr/lib/mapchan* to permit the use of international character sets on their corresponding terminals:

ascii	Any 7-bit US ASCII terminal
hp.roman8	ROMAN-8, i.e. Hewlett-Packard Laserjet II
cons.ibm	Console-PC standard ROM
cons.iso	Console-ISO 8859/1 ROM
cons.nor	Console-PC Nordic ROM
cons.por	Console-PC Portuguese ROM
cons.spa	Console-PC Spanish ROM
cons.grk	Console-PC Greek ROM
cons.850	Console-IBM PC Multilingual code page 850
nrc.can	Canadian 7-bit NRC terminals
nrc.chw	Swiss 7-bit NRC terminals
nrc.fra	French 7-bit NRC terminals
nrc.ger	German 7-bit NRC terminals
nrc.ita	Italian 7-bit NRC terminals
nrc.nor	Norwegian 7-bit NRC terminals
nrc.spa	Spanish 7-bit NRC terminals
nrc.swe	Swedish 7-bit NRC terminals
nrc.ukd	UK English 7-bit NRC terminals
qvt.fra	Qume QVT101 with French keyboard
qvt.ger	Qume QVT101 with German keyboard
tvi.fra	TVI924 with French keyboard
tvi.ger	TVI924 with German keyboard
tvi.nor	TVI924 with Norwegian/Danish keyboard
tvi.por	TVI924 with Portuguese keyboard
tvi.spa	TVI924 with Spanish keyboard
tvi.swe	TVI924 with Swedish/Finnish keyboard
tvi.ukd	TVI924 with UK keyboard
tvi.usa	TVI924 with US ASCII keyboard

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dec	DEC Multinational, i.e. VT220
wy60.fra.ans	Wyse60 French NRC with ANSI keyboard
wy60.fra.asc	Wyse60 French NRC with ASCII keyboard
w60.ibmfra.ans	Wyse60 French 8-bit ANSI keyboard
w60.ibmfra.asc	Wyse60 French 8-bit ASCII keyboard
wy60.ger	Wyse60 German keyboard (ANSI or ASCII)
wy60.ibm.ger	Wyse60 German 8-bit keyboard (ANSI or ASCII)
hp.ansi.7.bel	HP with Belgian ANSI keyboard
hp.ansi.7.fra	HP with French ANSI keyboard
hp.ansi.7.can	HP with Canadian English/French ANSI keyboard
hp.ansi.7.dan	HP with Danish ANSI keyboard
hp.ansi.7.nor	HP with Norwegian ANSI keyboard
hp.ansi.7.fin	HP with Finnish ANSI keyboard
hp.ansi.7.ger	HP with German ANSI keyboard
hp.ansi.7.grd	HP with German (DIN) ANSI keyboard
hp.ansi.7.ita	HP with Italian ANSI keyboard
hp.ansi.7.ndl	HP with Dutch ANSI keyboard
hp.ansi.7.por	HP with Portuguese ANSI keyboard
hp.ansi.7.spa	HP with Spanish ANSI keyboard
hp.ansi.7.swe	HP with Swedish ANSI keyboard
hp.ansi.7.swi	HP with Swiss German/French ANSI keyboard
hp.ansi.7.ukd	HP with UK English ANSI keyboard
hp.ansi.7.usa	HP with US English ANSI keyboard
hp.ascii.7.bel	HP with Belgian ASCII keyboard
hp.ascii.7.fra	HP with French ASCII keyboard
hp.ascii.7.can	HP with Canadian English/French ASCII keyboard
hp.ascii.7.dan	HP with Danish ASCII keyboard
hp.ascii.7.esp	HP with European Spanish ASCII keyboard
hp.ascii.7.fin	HP with Finnish ASCII keyboard
hp.ascii.7.swe	HP with Swedish ASCII keyboard
hp.ascii.7.ger	HP with German ASCII keyboard
hp.ascii.7.ita	HP with Italian ASCII keyboard
hp.ascii.7.lsp	HP with Latin Spanish ASCII keyboard

hp.ascii.7.ndl	HP with Dutch ASCII keyboard
hp.ascii.7.nor	HP with Norwegian ASCII keyboard
hp.ascii.7.swi	HP with Swiss German/French ASCII keyboard
hp.ascii.7.ukd	HP with UK English ASCII keyboard
hp.ascii.7.usa	HP with US English ASCII keyboard
hp.ansi.8	HP with 8-bit Dec Multinational Character set
hp.roman.8	HP with 8-bit ROMAN Character set

Note

The cons.grk mapchan file does not conform to the ISO 8859 standard.

Files which are not designed for specific terminal makes (the *nrc.** files), may need some additions to account for the features of a particular terminal. As a guide, see how the *qvt.** files differ from their corresponding *nrc.** files.

A.1.5.1 Supported Terminals

This section gives additional information on the following supported terminals:

- wyse60
- Olivetti[®] ws685 and ws685pc
- HP 700/22, 700/32, 700/41, 700/43, 700/44, 700/45, 700/92

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The tables below, help you choose which mapchan files to use with different terminals and keyboards.

wyse60

In order to load the correct font for use with 8-bit characters, set your terminal as follows:

TERM environment variable setting	Terminal Configuration
wyse60	wyse60 8-bit with ANSI/ASCII keyboard
wyse60n	wyse60n 7-bit NRC with ANSI/ASCII keyboard

Note that the appropriate keyboard language must be configured on the terminal before login.

The following table gives the mapchan files for different keyboards and language sets:

Keyboard	Language	
	French	German
NRC ANSI	wy60.fra.ans	wy60.ger
NRC ASCII	wy60.fra.asc	wy60.ger
8-bit ANSI	w60.ibmfra.ans	wy60.ibm.ger
8-bit ASCII	w60.ibmfra.asc	wy60.ibm.ger

Olivetti

Use the dec mapchan file with Olivetti ws685 and ws685pc terminals.

Hewlett-Packard

Use the following mapchan files with the HP 700/22 terminal:

Keyboard	vt220 7-bit mode NRC	vt220 8-bit mode DEC multilingual
Belgian	hp.ansi.7.bel	hp.ansi.8
Canadian French	hp.ansi.7.can	hp.ansi.8
Danish	hp.ansi.7.dan	hp.ansi.8
Finnish	hp.ansi.7.fin	hp.ansi.8
French	hp.ansi.7.fra	hp.ansi.8
German	hp.ansi.7.ger	hp.ansi.8
German (din)	hp.ansi.7.grd	hp.ansi.8
Italian	hp.ansi.7.ita	hp.ansi.8
Dutch	hp.ansi.7.ndl	hp.ansi.8
Norwegian	hp.ansi.7.nor	hp.ansi.8
Portuguese	hp.ansi.7.por	hp.ansi.8
Spanish	hp.ansi.7.spa	hp.ansi.8
Swedish	hp.ansi.7.swe	hp.ansi.8
Swiss	hp.ansi.7.swi	hp.ansi.8
British	hp.ansi.7.ukd	hp.ansi.8
American	hp.ansi.7.usa	hp.ansi.8

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Use the following mapchan files for the HP 700/44 terminal:

Keyboard	vt220 7-bit mode NRC	vt220 8-bit mode DEC multilingual	HP-PCterm mode
Belgian	hp.ansi.7.bel	hp.ansi.8	cons.850
Canadian French	hp.ansi.7.can	hp.ansi.8	cons.850
Danish	hp.ansi.7.dan	hp.ansi.8	cons.850
Finnish	hp.ansi.7.fin	hp.ansi.8	cons.850
French	hp.ansi.7.fra	hp.ansi.8	cons.850
German	hp.ansi.7.ger	hp.ansi.8	cons.850
German (din)	hp.ansi.7.grd	hp.ansi.8	cons.850
Italian	hp.ansi.7.ita	hp.ansi.8	cons.850
Dutch	hp.ansi.7.ndl	hp.ansi.8	cons.850
Norwegian	hp.ansi.7.nor	hp.ansi.8	cons.850
Portuguese	hp.ansi.7.por	hp.ansi.8	cons.850
Spanish	hp.ansi.7.spa	hp.ansi.8	cons.850
Swedish	hp.ansi.7.swe	hp.ansi.8	cons.850
Swiss	hp.ansi.7.swi	hp.ansi.8	cons.850
British	hp.ansi.7.ukd	hp.ansi.8	cons.850
American	hp.ansi.7.usa	hp.ansi.8	cons.850

Use the following mapchan files for the HP 700/32 terminal:

Keyboard	vt220 7-bit mode NRC	vt220 8-bit mode DEC multilingual
Belgian	hp.ansi.7.bel	hp.ansi.8
Canadian French	hp.ansi.7.can	hp.ansi.8
Danish	hp.ansi.7.dan	hp.ansi.8
Finnish	hp.ansi.7.fin	hp.ansi.8
French	hp.ansi.7.fra	hp.ansi.8
German	hp.ansi.7.ger	hp.ansi.8
German (din)	hp.ansi.7.grd	hp.ansi.8
Italian	hp.ansi.7.ita	hp.ansi.8
Dutch	hp.ansi.7.ndl	hp.ansi.8
Norwegian	hp.ansi.7.nor	hp.ansi.8
Portuguese	hp.ansi.7.por	hp.ansi.8
Spanish	hp.ansi.7.spa	hp.ansi.8
Swedish	hp.ansi.7.swe	hp.ansi.8
Swiss	hp.ansi.7.swi	hp.ansi.8
British	hp.ansi.7.ukd	hp.ansi.8
American	hp.ansi.7.usa	hp.ansi.8

Note

Mapping is not required for the HP 700/32 in vt320 ISO latin 1 mode.

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Use the following mapchan files for the HP 700/41 and HP 700/43 terminals:

Keyboard	wyse 30/50
Belgian	hp.ascii.7.bel
Canadian French	hp.ascii.7.can
Danish	hp.ascii.7.dan
Finnish	hp.ascii.7.fin
French	hp.ascii.7.fra
German	hp.ascii.7.ger
European Spanish	hp.ascii.7.esp
Italian	hp.ascii.7.ita
Dutch	hp.ascii.7.ndl
Norwegian	hp.ascii.7.nor
Latin Spanish	hp.ascii.7.lsp
Swedish	hp.ascii.7.swe
Swiss	hp.ascii.7.swi
British	hp.ascii.7.ukd
American	hp.ascii.7.usa

Use the following mapchan files for the HP 700/45 terminal with
ascii keyboard:

Keyboard	Wyse 60
Belgian	hp.ascii.7.bel
Canadian French	hp.ascii.7.can
Danish	hp.ascii.7.dan
Finish	hp.ascii.7.fin
French	hp.ascii.7.fra
German	hp.ascii.7.ger
European Spanish	hp.ascii.7.esp
Italian	hp.ascii.7.ita
Dutch	hp.ascii.7.ndl
Norwegian	hp.ascii.7.nor
Latin Spanish	hp.ascii.7.lsp
Swiss	hp.ascii.7.swi
British	hp.ascii.7.ukd
American	hp.ascii.7.usa

International UNIX Supplement

The following mapchan files for the HP 700/45 terminal with ansi keyboard:

Keyboard	vt220 7 bit mode NRC	vt220 8 bit mode DEC multilingual
Belgian	hp.ascii.7.bel	hp.ansi.8
Canadian French	hp.ascii.7.can	hp.ansi.8
Danish	hp.ascii.7.dan	hp.ansi.8
Finish	hp.ascii.7.fin	hp.ansi.8
French	hp.ascii.7.fra	hp.ansi.8
German	hp.ascii.7.ger	hp.ansi.8
German (din)	hp.ascii.7.grd	hp.ansi.8
Italian	hp.ascii.7.ita	hp.ansi.8
Dutch	hp.ascii.7.ndl	hp.ansi.8
Norwegian	hp.ascii.7.nor	hp.ansi.8
Portuguese	hp.ascii.7.por	hp.ansi.8
Spanish	hp.ascii.7.spa	hp.ansi.8
Swedish	hp.ascii.7.swe	hp.ansi.8
Swiss	hp.ascii.7.swi	hp.ansi.8
British	hp.ascii.7.ukd	hp.ansi.8
American	hp.ascii.7.usa	hp.ansi.8

Note

Mapping is not required for the HP 700/45 in vt320 ISO latin 1 mode.

Use the following mapchan files for the HP 700/92 terminal:

Keyboard	7 bit mode ISO REPLACEMENT	8 bit mode
Belgian	hp.ascii.7.bel	hp.roman.8
Canadian French	hp.ascii.7.can	hp.roman.8
Danish	hp.ascii.7.dan	hp.roman.8
Finish	hp.ascii.7.fin	hp.roman.8
French	hp.ascii.7.fra	hp.roman.8
German	hp.ascii.7.ger	hp.roman.8
European Spanish	hp.ascii.7.esp	hp.roman.8
Italian	hp.ascii.7.ita	hp.roman.8
Dutch	hp.ascii.7.ndl	hp.roman.8
Norwegian	hp.ascii.7.nor	hp.roman.8
Latin Spanish	hp.ascii.7.lsp	hp.roman.8
Swedish	hp.ascii.7.swe	hp.roman.8
Swiss	hp.ascii.7.swi	hp.roman.8
British	hp.ascii.7.ukd	hp.roman.8
American	hp.ascii.7.usa	hp.roman.8

A.1.5.2 Setting up a Terminal

If you have one of the terminals listed below, follow the instructions in this section to set it up:

- HP 700/99
- HP 700/44
- HP 700/41
- Olivetti ws685

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Note that the compose character is different for some terminals configured to emulate the vt220, and with some settings of keyboard language (for example, North American). The compose character is generated by typing <CTL><Shift>/ or <CTL>7, rather than by typing <CTL>_.

HP 700/99 Terminal

If you have this terminal, set it up as follows:

- Set terminal mode to "HP".
- Set the margin setting to "off".
- Expand tabs to "spaces".

HP 700/44 Terminal

If you have this terminal, set it up as follows:

- Set the TERM environment variable to "hpansi".
- Set the terminal configuration to HP-PCterm mode.
- Use the cons.850 mapchan file.

HP 700/41

If you have this terminal, set the terminal mode to wy30.

Olivetti ws685

The terminal mode for this terminal is vt200 with 8-bit control.

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